

**In the Claims:**

Please cancel claims 1 to 23 without prejudice and add the following claims 24 to 47:

Claims 1 to 23 (canceled).

24(new). A cosmetic agent for improving a condition of hair, said agent comprising at least one silane of formula I:



wherein m denotes an integer from 0 to 4,

R is a nonhydrolyzable organic group, and

X denotes a hydrolyzable group.

25(new). The cosmetic agent as defined in claim 24, wherein said integer is from 0 to 3.

26(new). The cosmetic agent as defined in claim 25, wherein each R, independently of each other, denotes a substituted or unsubstituted alkyl group each with 1 to 16 carbon atoms, a substituted or unsubstituted hydroxyalkyl group each with 1 to 16 carbon atoms and 1 to 6 hydroxyl groups or a substituted or unsubstituted phenyl group; and each X, independently of each other, denotes a hydroxyl, halogen, acetyl, acetoxy, acyl, acyloxy or alkoxy group with 1 to 6 carbon atoms, a hydroxylated

polymer unit, a polyglycol or a polyalkyl ether with 4 to 18 carbon atoms.

27(new). The cosmetic agent as defined in claim 24, wherein said integer is 1 or 2.

28(new). The cosmetic agent as defined in claim 24, wherein said at least one silane is at least one of compounds of formula IV, of formula V, of formula VI and of formula VII:



wherein each R1, independently of each other, is a halogen or R6O, wherein R6 is H; alkyl; aryl, acetyl; acetoxy; acyl; acyloxy; glycol; polyglycol; alkylglycol, alkyl polyglycol or a monoester formed by linking a carboxylic acid with 1 to 24 carbon atoms with a glycol or polyglycol; alkylphenol, substituted with an alkyl with 1 to 24 carbon atoms, an ether thereof or a sorbitan ester thereof;

R7 denotes R6, H, halogen, halogenated or perhalogenated alkyl or aryl,

NH<sub>2</sub>(CH<sub>2</sub>)<sub>2</sub>NHR<sub>2</sub>, NH<sub>2</sub>R<sub>2</sub>, C<sub>3</sub>H<sub>5</sub>O<sub>2</sub>R<sub>2</sub>, C<sub>4</sub>H<sub>6</sub>O<sub>2</sub>R<sub>2</sub>, NaO(CH<sub>3</sub>O)P(O)R<sub>2</sub> or

ClCH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>R<sub>2</sub>;

R8 and R9, independently of each other, denote R7, alkyl with 1 to 24 carbon atoms, isobutyl, phenyl or n-octyl;

R2 denotes R6, benzyl or vinyl;

R3 and R4, independently of each other, each denote R7, hydroxyalkyl, alkoxy or alkyl with 1 to 6 carbon atoms, or R3 and R4 together represent a morpholine group or another cyclic or heterocyclic group;

R5 denotes hydroxyalkyl,  $R7CH_2C_6H_5$ , polyglycol, alkyl, alkoxy, perfluoroalkyl, perfluoroalkyl sulfonate or perfluoroalkyl carboxylate; and

$Y^-$  is an anion of salts of the compounds of formula IV.

29(new). The cosmetic agent as defined in claim 24, wherein said at least one silane is selected from the group consisting of 3-(trimethoxysilyl)propyl-dimethyloctadecylammonium chloride, 3-(trimethoxysilyl)propylmethyl-di(decyl)ammonium chloride, 3-chloropropyltrimethylsilane, 3-chloropropyl-trimethoxysilane, octadecyltrimethoxysilane, 1H, 1H, 2H,2H-perfluorooctyl-triethoxysilane and 1H, 1H, 2H, 2H-perfluorodecyltriethoxysilane.

30(new). The cosmetic agent as defined in claim 24, wherein said at least one silane is selected from the group consisting of  $NH_2(CH_2)_2NH(CH_2)_3Si(OCH_3)_3$ ,  $NH_2(CH_2)_3Si(OCH_3)_3$ ,  $NH_2(CH_2)_3Si(OCH_2CH_3)_3$ ,  $Cl(CH_2)_3Si(OCH_3)_3$ ,  $Cl(CH_2)_3Si(OCH_2CH_3)_3$ ,  $Cl(CH_2)_3SiCl_3$ ,  $C_3H_5O_2(CH_2)_3Si(OCH_2CH_3)_3$ ,  $C_3H_5O_2(CH_2)_3Si(OCH_3)_3$ ,  $C_4H_5O_2(CH_2)_3Si(OCH_3)_3$ ,  $C_4H_5O_2(CH_2)_3Si(OCH_2CH_3)_3$ ,  $CH_3SiHCl_2$ ,  $NaO(CH_3O)P(O)(CH_2)_3Si(OH)_3$ ,  $SiHCl_3$ , N-2-vinyl-benzylaminoethyl-3-amino-propyltrimethoxysilane.HCl,  $H_2C=CHSi(OCOCH_3)_3$ ,  $H_2C=CHSi(OCH_3)_3$ ,  $H_2C=CHSi(OCH_2CH_3)_3$ ,  $H_2C=CHSiCl_3$ ,  $(CH_3)_2SiCl_2$ ,

$(\text{CH}_3)_2\text{Si}(\text{OCH}_3)_2$ ,  $(\text{C}_6\text{H}_5)_2\text{SiCl}_2$ ,  $(\text{C}_2\text{H}_5)\text{SiCl}_3$ ,  $(\text{C}_2\text{H}_5)\text{Si}(\text{OCH}_3)_3$ ,  
 $(\text{C}_2\text{H}_5)\text{Si}(\text{OCH}_2\text{CH}_3)_3$ , isobutyltrimethoxysilane, n-octyltriethoxysilane,  
 $\text{CH}_3(\text{C}_6\text{H}_5)\text{SiCl}_2$ ,  $\text{CH}_3\text{SiCl}_3$ ,  $\text{CH}_3\text{Si}(\text{OCH}_3)_3$ ,  $\text{C}_6\text{H}_5\text{SiCl}_3$ ,  $\text{C}_6\text{H}_5\text{Si}(\text{OCH}_3)_3$ ,  $\text{C}_3\text{H}_7\text{SiCl}_3$ ,  
 $\text{C}_3\text{H}_7\text{Si}(\text{OCH}_3)_3$ ,  $\text{SiCl}_4$ ,  $\text{ClCH}_2\text{C}_6\text{H}_4\text{CH}_2\text{CH}_2\text{SiCl}_3$ ,  $\text{ClCH}_2\text{C}_6\text{H}_4\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_3)_3$ ,  
 $\text{ClCH}_2\text{C}_6\text{H}_4\text{CH}_2\text{CH}_2\text{Si}(\text{OCH}_2\text{CH}_3)_3$ , decyltrichlorosilane, dichloromethyl(4-methyl-  
phenethyl)silane, diethoxymethylphenylsilane, trimethoxysilane,  
3-(dimethoxymethylsilyl)-1-propanethiol, dimethoxymethylvinylsilane, 3-propyl  
methacrylate, trichlorosilane, methyl-bis-(trimethylsilyloxy)vinylsilane,  
methyltripropoxysilane and trichlorocyclopentylsilane.

31(new). The cosmetic agent as defined in claim 24, wherein said at least one  
silane is a compound of formula VIII:



wherein each **Ra** is, independently of each other, halogen or **R10O**, wherein **R10**  
is an alkyl group with 1 to 6 carbon atoms, an acetyl group, an acetoxo group, an  
acyl group, an acyloxy group; a glycol group; a polyglycol group; an alkylglycol  
group with 1 to 10 carbon atoms or an alkylpolyglycol group with 1 to 10 carbon  
atoms; and

**Rb** denotes an alkyl group with 1 to 16 carbon atoms, a halogenated alkyl group  
with 1 to 16 carbon atoms or a perhalogenated alkyl group of formula  $\text{C}_p\text{Z}_{2p+1}$   
with  $\text{Z} = \text{F}, \text{Cl}$  or  $\text{Br}$ , and  $p = 1$  to 16.

32(new). The cosmetic agent as defined in claim 24, wherein said at least one silane is a compound of formula IX:



wherein Rc denotes a straight-chain or branched alkyl group with 1 to 5 carbon atoms and Rd denotes a straight-chain or branched fluorinated or perfluorinated alkyl group with 1 to 8 carbon atoms.

33(new). The cosmetic agent as defined in claim 24, wherein said at least one silane is a compound of formula IX':



wherein Rc denotes a straight-chain or branched alkyl group with 1 to 5 carbon atoms and Rd denotes a straight-chain or branched fluorinated or perfluorinated alkyl group with 8 to 10 carbon atoms.

34(new). The cosmetic agent as defined in claim 33, wherein said compound of the formula IX' is 1H,1H,2H,2H-perfluorooctyltriethoxysilane or 1H,1H,2H,2H-perfluorodecyltriethoxysilane.

35(new). The cosmetic agent as defined in claim 24, further comprising a UV filter linked with said at least one silane by elimination of an atom or group from the UV filter and linking said at least one silane to a site on said UV filter at which said atom or group is eliminated, and wherein said UV filter is para-amino-

benzoic acid, aminobenzoic acid, salicylic acid, cinnamic acid, benzoic acid or benzophenone, or an alkyl derivative or anhydride or mixed anhydride thereof.

36(new). A permanent wave pretreatment agent comprising the cosmetic agent as defined in claim 24.

37(new). A method of improving a condition of hair, said method comprising bringing the cosmetic agent as defined in claim 24 into contact with the hair.

38(new). The method as defined in claim 37, wherein said at least one silane, or a salt thereof, is present in the cosmetic agent in an amount of from 0.01 to 10 percent by weight, based on a total amount of the cosmetic agent.

39(new). The method as defined in claim 37, wherein said at least one silane, or a salt thereof, is present in the cosmetic agent in an amount of from 0.1 to 5 percent by weight, based on a total amount of the cosmetic agent.

40(new). The method as defined in claim 37, wherein said cosmetic agent is brought into contact with the hair for a period of 10 seconds to 60 minutes at a temperature of between 20°C and 60°C.

41(new). The method as defined in claim 37, wherein the improving the condition of the hair consists of at least one of hardening, strengthening, sealing, sealing

after hair dyeing or tinting, restructuring, repairing, stabilizing, enhancing luster, enhancing volume, enhancing combability, protecting from environmental influences, protecting from heat, protecting from heat generated by a hair drier, protecting from heat generated by a hot iron during hair smoothing, preventing and reducing hair splitting, shortening the hair-drying time and increasing the tensile strength and elasticity of the hair as well as the permanence of permanent waves.

42(new). The method as defined in claim 37, wherein said cosmetic agent is brought into contact with the hair after the hair has been subjected to a chemical treatment.

43(new). The method as defined in claim 42, wherein the chemical treatment comprises dyeing, tinting, bleaching or permanent deformation.

44(new). The method as defined in claim 37, wherein the hair is damaged, weakened, sensitive, brittle and/or fine.

45(new). An agent for dyeing and simultaneously improving a condition of human hair, said agent containing a direct hair colorant or an oxidative hair colorant and from 0.01 to 10 percent by weight of at least one silane of formula I, or a salt thereof:



wherein  $m$  denotes an integer from 0 to 4,

$R$  is a nonhydrolyzable organic group, and

$X$  denotes a hydrolyzable group.

46(new). A method for dyeing and simultaneously improving a condition of human hair, said method comprising bringing the hair in contact with the agent as defined in claim 45 for from 1 to 40 minutes, then washing or rinsing the hair and subsequently drying the hair.

47(new). A method for dyeing and simultaneously improving a condition of human hair, said method comprising the steps of:

a) bringing the hair into contact with a direct hair colorant or an oxidative hair colorant for 5 to 40 minutes;

b) optionally rinsing the hair colorant out of the hair with water and optionally drying the hair;

c) bringing the hair into contact with a cosmetic agent as defined in claim 24; and

d) optionally rinsing the hair with water and optionally drying the hair.